

CLAIMS

What is claimed is:

- [c1] 1. A method for distributing and processing an application, comprising the steps of:
 receiving the application and identification information;
 certifying the application satisfies a predetermined criterion;
 assigning a permission to the application;
 transmitting the application, the permission and the identification information to
 the a device using a modification detection technique;
 determining whether the application was modified during transmission;
 storing a rule on the device;
 determining if the application may be process using the permission and the rule;
 and
 removing the application from the device.
- [c2] 2. The method of claim 1 further comprising the steps of:
 initiating the execution of the application on the device;
 monitoring the execution of the application; and
 detecting the application attempting to make an improper operation.
- [c3] 3. The method of claim 1, wherein the application is denied permission to be
 processed on the device.
- [c4] 4. The method of claim 1, wherein the identification information is retrieved by the
 device.
- [c5] 5. The method of claim 1 further comprising the step of detecting a modification in
 the application.
- [c6] 6. The method of claim 1 further comprising the step of detecting a modification in
 the permission.

- [c7] 7. The method of claim 1, wherein the modification detection technique uses a digital signature.
- [c8] 8. A method for distributing and processing an application, comprising the steps of:
 receiving the application and identification information;
 certifying the application satisfies a predetermined criterion;
 assigning a permission to the application;
 transmitting the application, the permission and the identification information to the a wireless device;
 storing a rule on the device; and
 determining if the application may be processed on the device using the permission and the rule.
- [c9] 9. The method of claim 8 further comprising the steps of:
 initiating the execution of the application on the wireless device;
 monitoring the execution of the application;
 detecting the application attempting to make an improper operation; and
 removing the application from the wireless device.
- [c10] 10. The method of claim 8, wherein the application was denied permission to be processed on the wireless device and further comprising the step of removing the application from the device.
- [c11] 11. The method of claim 8, wherein the identification information is determined by the wireless device.
- [c12] 12. The method of claim 8, wherein a modification detection technique is used to transmit the application, the permission and the identification information.

- [c13] 13. The method of claim 12, wherein the modification detection technique uses a digital signature.
- [c14] 14. The method of claim 12 further comprising the steps of:
detecting a modification in the application transmitted to the device; and
removing the application from the device.
- [c15] 15. The method of claim 12 further comprising the steps of:
detecting a modification in the permission transmitted to the device; and
removing the application from the device.
- [c16] 16. A method for distributing and processing an application, comprising the steps of:
receiving the application and identification information;
assigning a permission to the application;
transmitting the application, the permission and the identification information to the a device using a modification detection technique;
determining whether the application was modified during transmission;
storing a rule on the device;
determining if the application may be process using the permission and the rule;
and
removing the application from the device.
- [c17] 17. The method of claim 16 further comprising the steps of:
initiating the execution of the application on the wireless device;
monitoring the execution of the application;
detecting the application attempting to make an improper operation; and
removing the application from the wireless device.
- [c18] 18. The method of claim 16, wherein the application was denied permission to be processed on the wireless device and further comprising the step of removing the application from the device.

[c19] 19. The method of claim 16, wherein the identification information is determined by the wireless device.

[c20] 20. The method of claim 16, wherein a modification detection technique is used to transmit the application, the permission and the identification information.

[c21] 21. The method of claim 20, wherein the modification detection technique uses a digital signature.

[c22] 22. The method of claim 20 further comprising the steps of:
detecting a modification in the application transmitted to the device; and
removing the application from the device;

[c23] 23. The method of claim 12 further comprising the steps of:
detecting a modification in the permission transmitted to the device; and
removing the application from the device.

[c24] 24. A system for distributing an executing an application on a wireless device, comprising:
a central server operable to receive the application and developer identification, to assign a permission associated with the application and to transmit the application information to the wireless device;
a server operable to certify the application satisfies a predefined criterion; and
the wireless device operable to receive the application and developer identification, and to evaluate the assigned permission.

[c25] 25. The system of claim 24, wherein the central server is further operable to transmit the application to the wireless device using a modification detection technique.

[c26] 26. The system of claim 24, wherein the central server is further operable to transmit the permission to the wireless device using a modification detection technique.

[c27] 27. The system of claim 24, wherein the server is operable to certify the application is the central server.

[c28] 28. The system of claim 24, wherein the wireless device is operable to evaluate the assigned permission using a rule stored in the wireless device.

[c29] 29. A system for distributing and executing an application on a wireless device, comprising:

- means for receiving the application and identification information;
- means for assigning a permission to the application;
- means for transmitting the application, the permission and the identification information to the device using a modification detection technique;
- means for determining whether the application was modified during transmission;
- means for storing a rule on the device;
- means for determining if the application may be process using the permission and the rule; and
- means for removing the application from the device.

[c30] 30. A method of processing application distribution, comprising the steps of:
 receiving the application and identification information;
 certifying the application satisfies a predetermined criterion;
 assigning a permission to the application;
 transmitting the application, the permission and the identification information to the device using a modification detection technique; and
 initiating a request to remove the application from a device.

- [c31] 31. The method of claim 30, further comprising the step of:
evaluating the received application and identification information to determine the
identity of a developer of the application.
- [c32] 32. The method of claim 30, wherein the modification detection technique uses a
digital signature.
- [c33] 33. A method of processing application distribution, comprising the steps of:
receiving the application and identification information;
assigning a permission to the application; and
transmitting the application, the permission and the identification information to
the device using a modification detection technique.
- [c34] 34. The method of claim 33 further comprising the step of initiating a request to
remove the application from a device.
- [c35] 35. The method of claim 33 further comprising the step of certifying the application
satisfies a predetermined criterion.
- [c36] 36. The method of claim 33, further comprising the step of:
evaluating the received application and identification information to determine the
identity of a developer of the application.
- [c37] 37. The method of claim 33, wherein the modification detection technique uses a
digital signature.
- [c38] 38. A system for application distribution, comprising:
a central server operable to receive application and identity information, assign a
permission, and transmit the application using a modification detection technique; and
a network connected to the central server to receive the application.

[c39] 39. The system of claim 38, wherein the central server is further operable to certify the application satisfies a predefined criterion.

[c40] 40. A system for application distribution, comprising:
 means for receiving the application and identification information;
 means for certifying the application satisfies a predetermined criterion;
 means for assigning a permission to the application; and
 means for transmitting the application, the permission and the identification information to the device using a modification detection technique.

[c41] 41. A computer-readable medium containing computer-executable instructions for distributing applications, comprising the steps of:
 receiving the application and identification information;
 certifying the application satisfies a predetermined criterion;
 assigning a permission to the application; and
 transmitting the application, the permission and the identification information to the device using a modification detection technique.

[c42] 42. A method for executing an application on a wireless device, comprising the steps of:
 storing a rule to evaluate a permission;
 receiving information comprising the application, the permission and an identification using a modification detection technique;
 receiving a request to execute the application on the wireless device;
 evaluating the received information to determine if the received information was modified;
 in the event the received information was not modified, evaluating the permission associated with the application; and
 in the event the permission is granted, executing the application.

- [c43] 43. The method of claim 42, wherein the modification detection technique uses a digital signature.
- [c44] 44. The method of claim 42 further comprising the step of monitoring the execution of the application to determine if an improper operation is attempted.
- [c45] 45. The method of claim 42 further comprising the step of removing the application from the wireless device.
- [c46] 46. A method for executing an application on a wireless device, comprising the steps of:
- storing a rule to evaluate a permission;
 - receiving information comprising the application, the permission and an identification using a modification detection technique;
 - receiving a request to execute the application on the wireless device; and
 - evaluating the permission associated with an application; and
 - in the event the information was modified, removing the application from the wireless device.
- [c47] 47. The method of claim 46, further comprising the steps of:
- in the event the received information was not modified, evaluating the permission associated with the application; and
 - in the event the permission is granted, executing the application.
- [c48] 48. The method of claim 46, wherein the modification detection technique uses a digital signature.
- [c49] 49. The method of claim 46 further comprising the step of monitoring the execution of the application to determine if an improper operation is attempted.

[c50] 50. The method of claim 46 further comprising the step of removing the application from the wireless device in the event the improper operation is attempted.

[c51] 51. A wireless device for executing an application, comprising:
a input to receive an application and a permission;
a rule contained in storage to evaluate the permission; and
a key contained in storage to evaluate a digital signature,
wherein the wireless device is operable to execute the application upon evaluation of the permission and digital signature.

[c52] 52. A wireless device for executing an application, comprising:
means for storing a rule to evaluate a permission;
means for receiving information comprising the application, the permission and an identification using a modification detection technique;
means for receiving a request to execute the application on the wireless device;
means for evaluating the received information to determine if the received information was modified;
means for, in the event the received information was not modified, evaluating the permission associated with the application; and
means for, in the event the permission is granted, executing the application.

[c53] 53. A computer-readable medium containing computer-executable instructions for distributing applications, comprising the steps of:
storing a rule to evaluate a permission;
receiving information comprising the application, the permission and an identification using a modification detection technique;
receiving a request to execute the application on the wireless device;
evaluating the received information to determine if the received information was modified;
in the event the received information was not modified, evaluating the permission associated with the application; and
in the event the permission is granted, executing the application.